



# ***Army Field Feeding Systems Update***

PM - Soldier Support

## **Briefing to the Reserve Component Food Service Conference 12 March 2001**

**Tim Benson**

**Assistant PM - Field Services and Field Feeding**

**Product Manager - Soldier Support**

**U.S. Army Soldier and Biological Chemical Command**



# ***Army Field Feeding Systems Update***

PM - Soldier Support

## ***Briefing Outline***

- **Modern Burner Unit (MBU)**
- **Kitchen Company Level Field Feeding (KCLFF)**
- **Mobile Kitchen Trailer Improvements (MKTI)**
- **Containerized Kitchen (CK)**
- **Battlefield Nutrition Delivery System (BNDS)**
- **MKT Recapitalization**
- **Food Sanitation Center (FSC)**
- **Multi-Temperature Refrigerated Container (MTRC)**



# ***Modern Burner Unit (MBU)***

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## ***System Description***

### **MISSION:**

**Provides the Burner to Perform Cooking Operations in All Army Field Feeding Equipment**



### **CHARACTERISTICS**

- Same footprint as M2 burner
- Burns JP8 fuel
- 28v DC electrical power operation
- Refuels in place
- Push button operation

### **SPECIAL FEATURES**

- Supports all field feeding equipment
  - Mobile Kitchen Trailer (MKT)
  - Modular Field Kitchen (MFK)
  - Kitchen, Company Level, Field Feeding (KCLFF)
  - Food Sanitation Center (FSC)
  - New Containerized Kitchen (CK)

### **CAPABILITY IMPROVEMENTS**

- Removes MOGAS fueled M2 burner from the battlefield
  - Replaces it with JP-8 fueled burner
  - IAW single fuel on the battlefield initiative
- Provides considerable improvement in safety for the operators
  - Will reduce injuries & save soldiers' lives

### **CONTRACT INFORMATION**

- Teleflex (Canada) Ltd., Richmond, BC (MBU manufacturer)
- Advanced Design Corp, Newington, VA (NET support contractor)
- Contract ends Apr 03
- Reprocurement to complete AAO



# ***Modern Burner Unit (MBU)***

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## ***Status/Key Issues***



- **14,000+ MBUs fielded to date**
  - FP 1-2 CONUS
  - FP 3 USAR (funded by OCAR)
  - USAREUR (partial)
- **Continuing fielding in accordance with HQDA distribution list**
  - FY01: USARPAC, EUSA, USAREUR (balance)
  - FY02: Army Prepo Stocks, FP 3 AC & NG
  - FY03+: FP 3-4
- **Fielding extends through FY2010 with current funding**
  - Optimum production rate of 10,000 per year (\$30M per year required)



# ***Modern Burner Unit (MBU)***

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## ***Basis of Issue***

- **Fielded to ON-HAND equipment only!**
- **Replaces M2 burners only in MKT, FSC, KCLFF, MFK!**
  - 6 per MKT
  - 3 per FSC
  - 3 per KCLFF
  - 6 per MFK
- **Will not be fielded for stand alone M59 ranges!**
- **A 2kW generator is provided for each MKT**



# ***Modern Burner Unit (MBU)***

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## ***Power and Fuel Sources***

Fuel Can Adapter

Power Converter

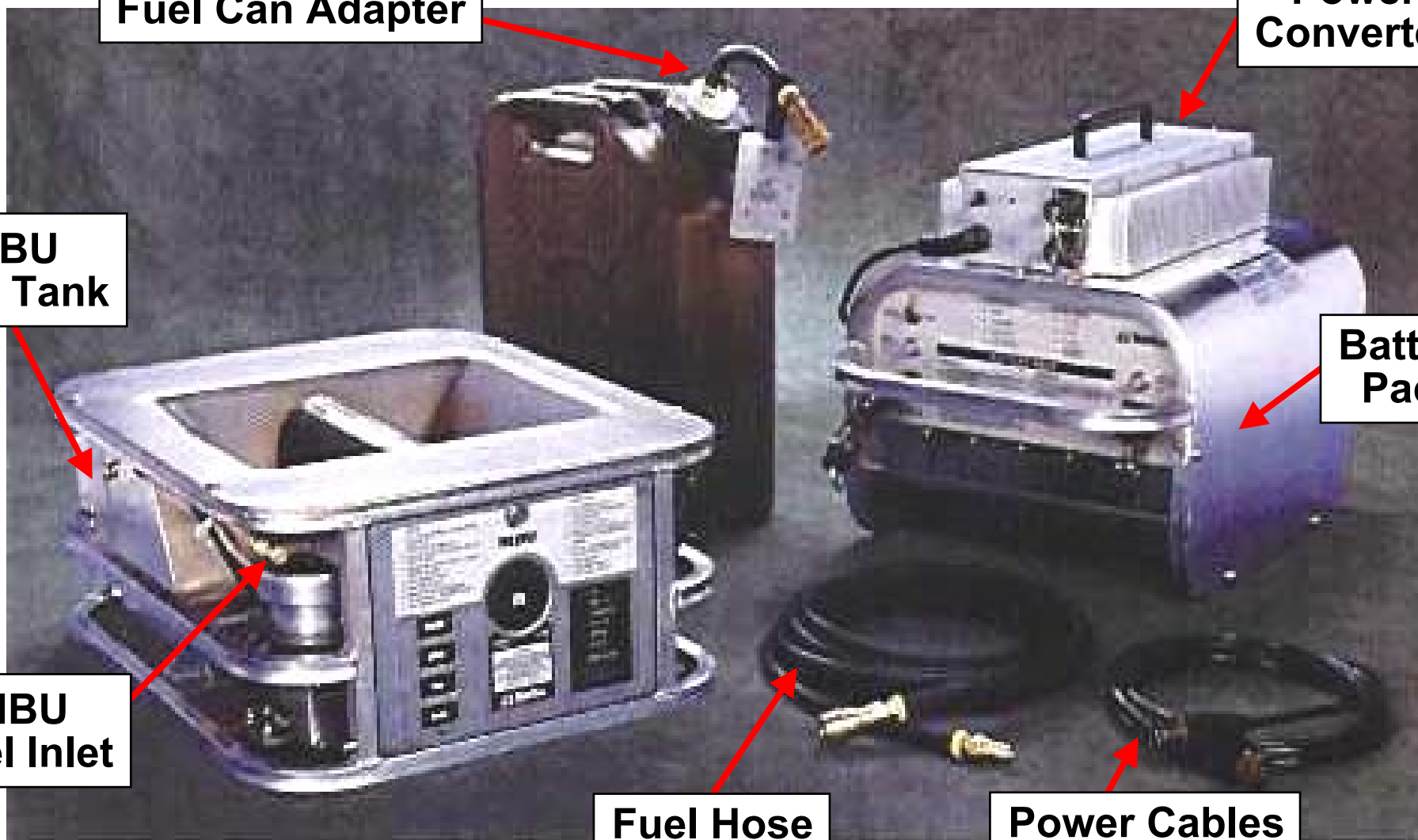
MBU Fuel Tank

Battery Pack

MBU Fuel Inlet

Fuel Hose

Power Cables

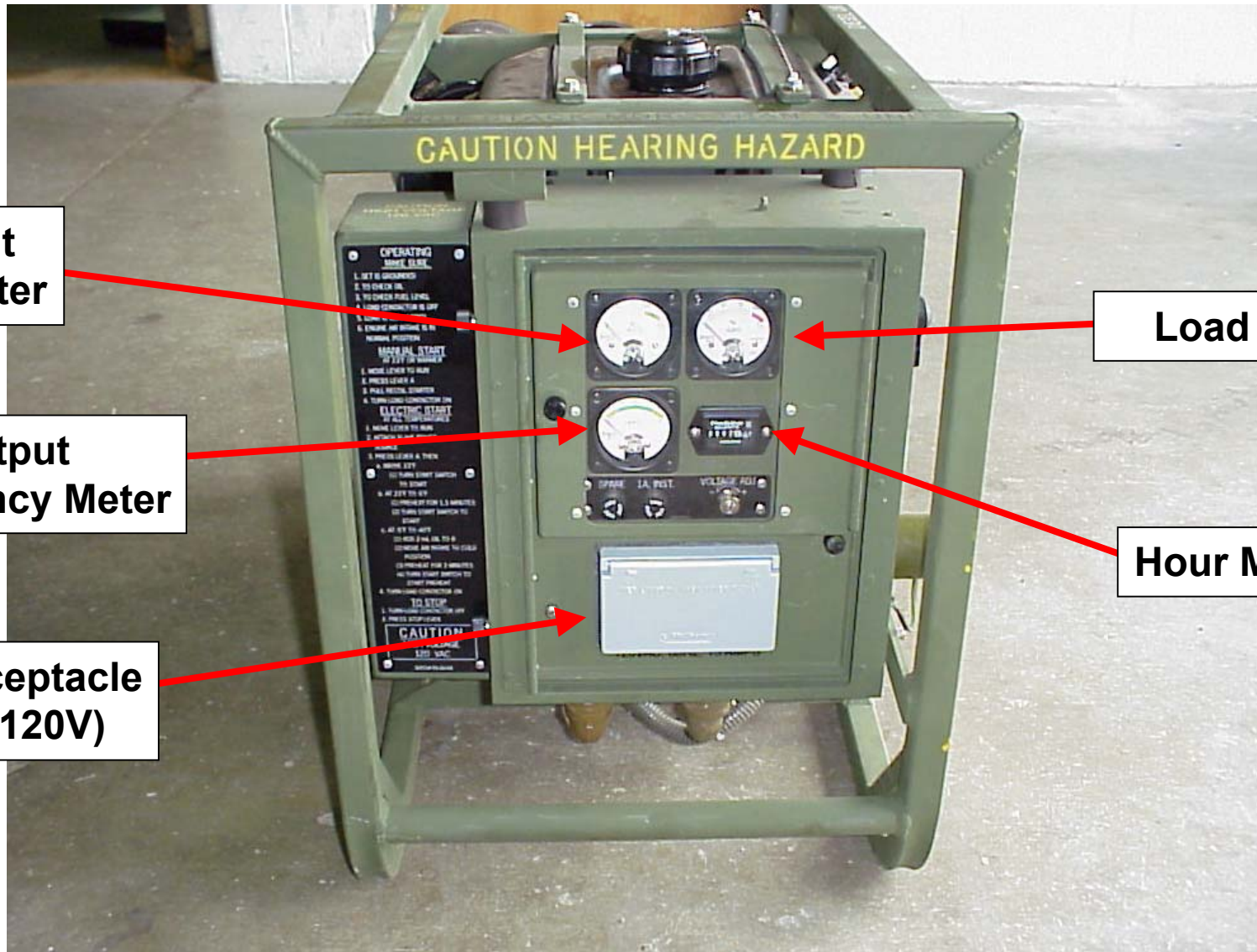




# Modern Burner Unit (MBU)

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**2kW Generator**





# Modern Burner Unit (MBU)

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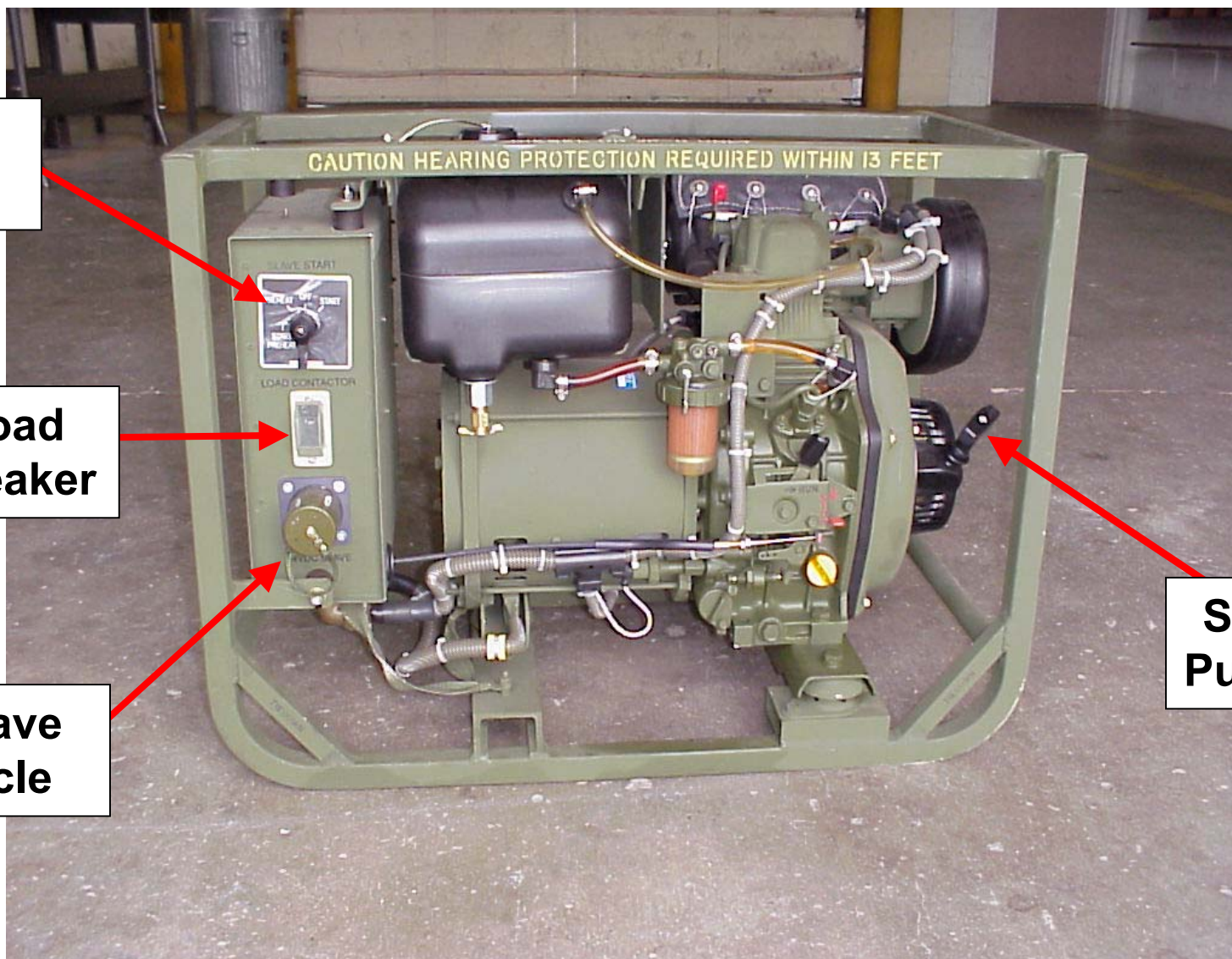
## 2kW Generator

**Starting  
Switch**

**On/Off Load  
Circuit Breaker**

**NATO Slave  
Receptacle**

**Starting  
Pull Rope**







# ***Modern Burner Unit (MBU)***

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## ***Electrical Adapter (NATO Slave Cable)***



- Used to recharge KCLFF battery pack
- Provides backup power to run MBUs from military vehicle electrical system
- Included in KCLFF and MKT kits



# ***Modern Burner Unit (MBU)***

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## ***Total Package Fielding - Equipment***

- MBU burners
- MBU application kits
  - Different kit for each application – MKT, FSC, MFK, KCLFF
  - Included cables, power converter (except KCLFF), battery pack (KCLFF only), fuel hoses and fuel can adapter, etc.
- MBU service parts overpack
- MBU technical manual
- 2kW generator set
- Grounding rod
- Generator parts support package
- Generator technical manuals

**Plastic fuel can not included  
Order NSN 7240-01-337-5269**



# ***Modern Burner Unit (MBU)***

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## ***Total Package Fielding Events***

- **Modification of Mobile Kitchen Trailer (MKT) and Modular Field Kitchen (MFK)**
- **Deprocessing of 2kW generator sets**
- **New Equipment Training (NET) on MBU and 2kW generators (operator and maintainer)**
- **Hand-off of MBU and associated equipment, generators and support packages**



# ***Modern Burner Unit (MBU)***

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## ***MKT & MFK Modifications***

- **MKT modification**
  - Install converter mounting bracket
  - Drill holes for cable installation
  - Install junction box for electrical service
  
- **MFK modification**
  - Cut ventilation holes in steam table
  - Install spacers to raise steam table
  
- **Support requirements**
  - AC power supply for drilling
  - MKT must be open and accessible
    - Leave all cooking equipment etc. on board
  - MFK steam table must be unpacked and accessible
  - Critical points of contact for contractor





# ***Modern Burner Unit (MBU)***

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## ***Modification Work Order For MKT***



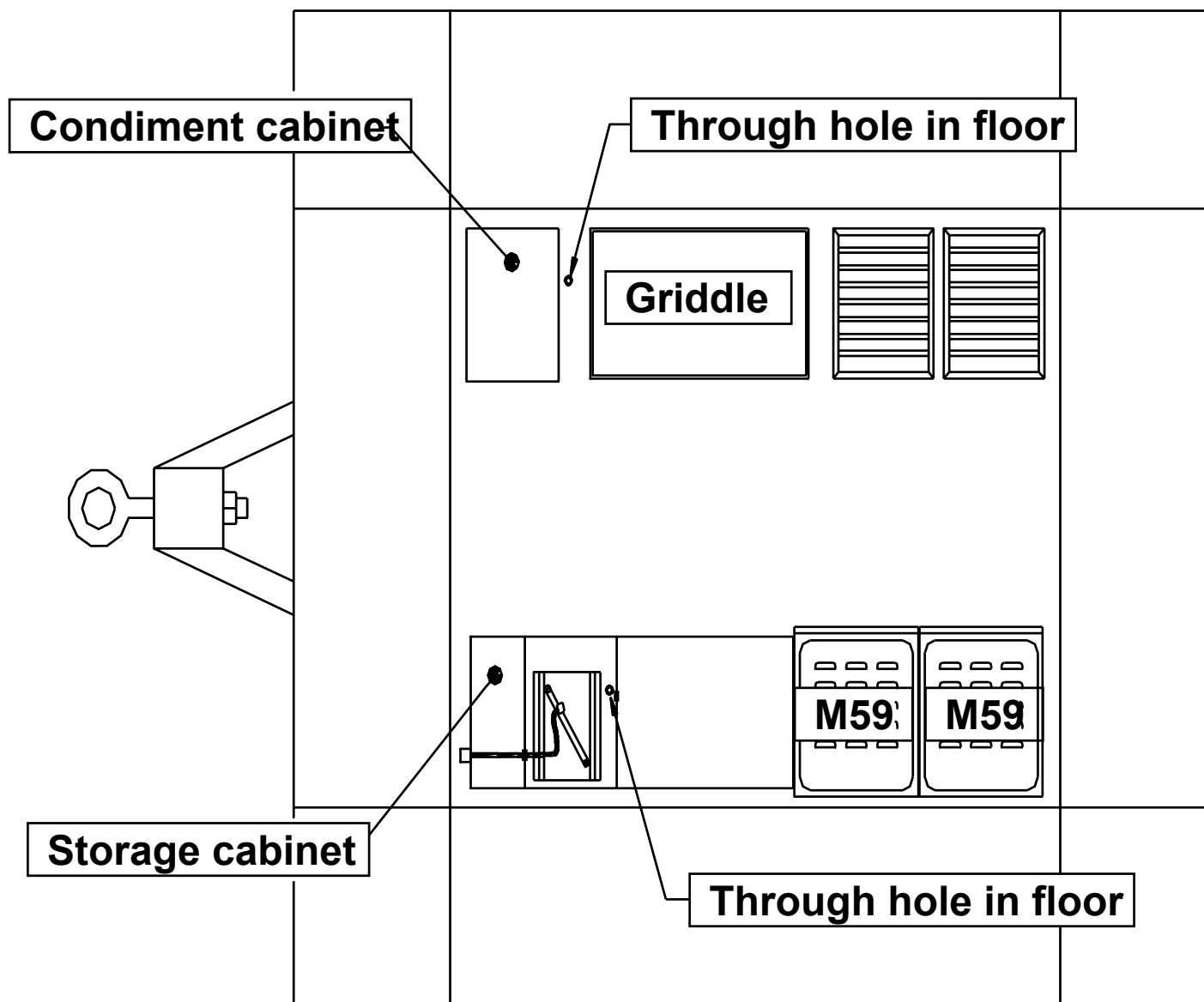




# Modern Burner Unit (MBU)

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## MKT Modifications

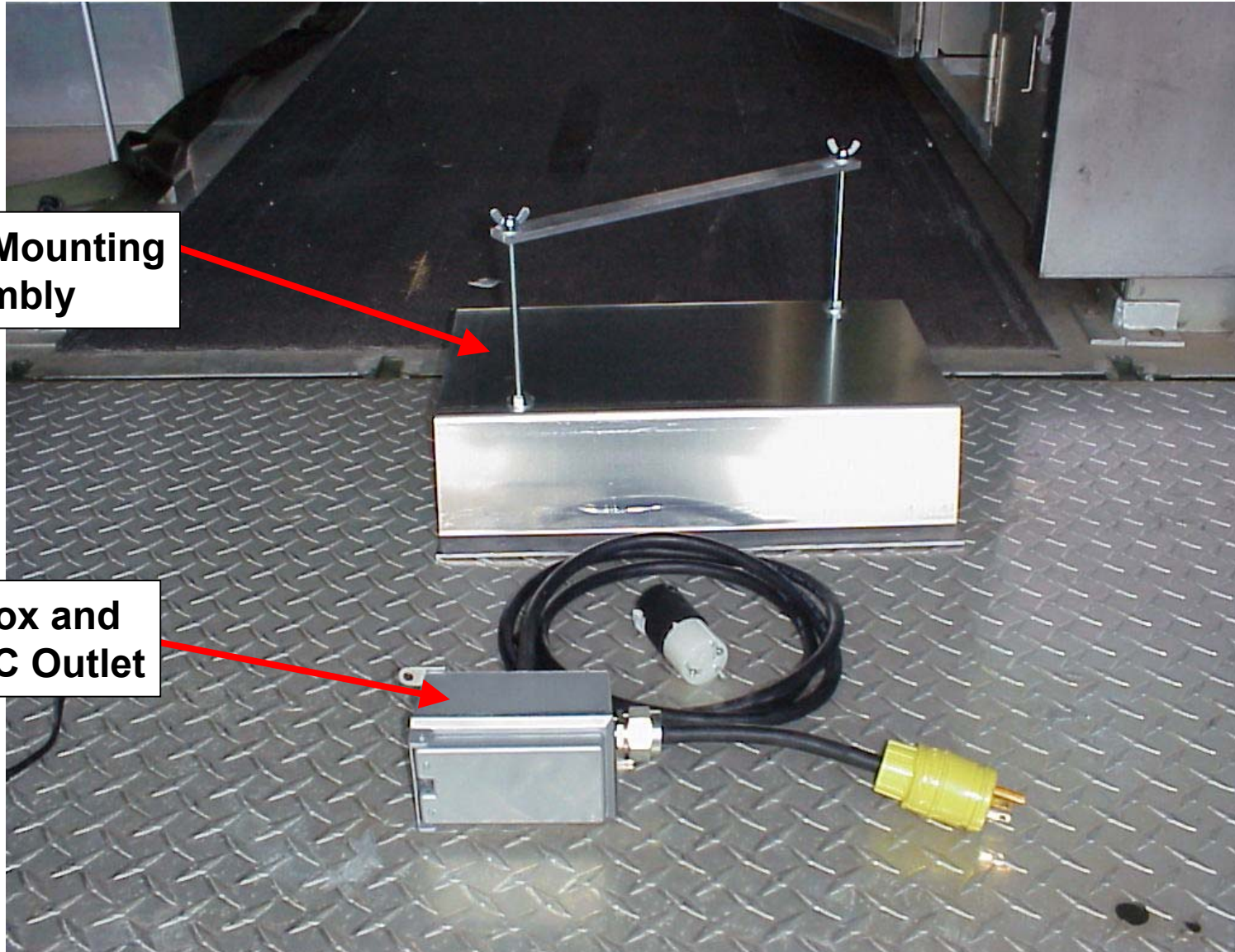




# ***Modern Burner Unit (MBU)***

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## ***Power Converter Mounting and Electrical Hardware***



**Converter Mounting  
Assembly**

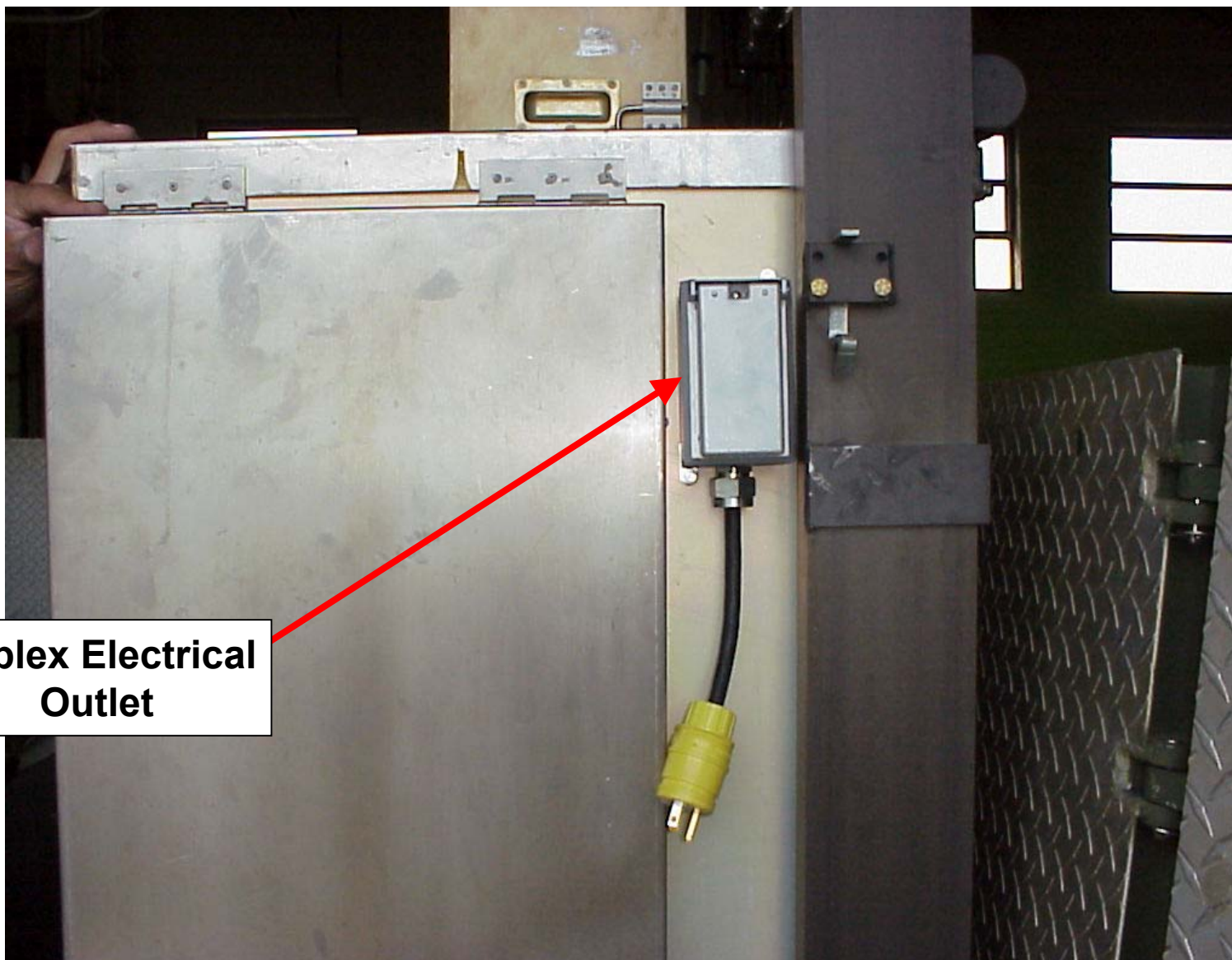
**Utility Box and  
Duplex AC Outlet**



# ***Modern Burner Unit (MBU)***

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## ***Electrical Service***



**Duplex Electrical  
Outlet**





# ***Modern Burner Unit (MBU)***

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## ***Power Converter Mounting Bracket***

**Power Converter  
Mounting Assembly**

